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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,298	07/22/2003	Minghao (Mary) Zhang	Qantec-06	7809
7590 11/16/2005			EXAMINER	
SVPA			NGUYEN, TUYEN T	
7394 Wildflower Way Cupertino, CA 95014			ART UNIT	PAPER NUMBER
o aproximation of the contract			2832	
			DATE MAILED: 11/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/624,298	ZHANG ET AL.		
Office Action Summary	Examiner	Art Unit		
	TUYEN T. NGUYEN	2832		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1)	action is non-final. nce except for formal matters, pro-			
Disposition of Claims				
 4) Claim(s) 1,3-29 and 31-47 is/are pending in the 4a) Of the above claim(s) 6,9-15,17,21-29 and 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-5,7,8,16 and 18-20 is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	31-47 is/are withdrawn from cons	sideration.		
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	•		

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5, 7-8, 16 and 18-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. in view of Redilla [US 6,420,952].

Mizoguchi et al. discloses N integrated transformers [figures 49-50] comprising:

a plurality of conducting stripes [40] formed closely to each other in silicon, each two adjacent stripes of the conducting stripes forming one of the N transformers,

wherein none of the conducting stripes are electrically connected and N is a finite integer greater than or equal to 2.

wherein the conducting stripes are on a layer and wound in parallel into a flat spiral.

Mizoguchi et al. teaches that the conducting stripes can be arranged/connected in various ways to form transformer(s).

Mizoguchi et al. discloses the instant claimed invention except for a conducting shielding.

Redilla discloses a transformer comprising a conductive shielding [1] located between primary and second coils [4, 5].

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It would have been obvious to one having ordinary skilled in the art at the time the invention was made to provide a conductive shield between the transformers of Mizoguchi et al., as suggested by Redilla, for the purpose of providing shielding between the coils/windings.

Regarding claim 5, the specific winding direction of the conducting stripes would have been an obvious design consideration for the purpose of controlling the magnetic flux and inductance of the device.

Regarding claims 19-20, the specific use of the transformer(s) would have been an obvious design consideration based on the intended application/environment use.

Claims 4 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. in view of Redilla, as applied to claim 1 above, and further in view of Chamberlayne [US 4,012,703].

Mizoguchi et al. in view of Redilla discloses the instant claimed invention except for the conducting stripes formed of transmission lines.

Chamberlayne discloses an integrated transformer comprising at least one coil formed of transmission lines [figure 5].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to form the conducting stripes of Mizoguchi et al., as modified, from transmission lines, as suggested by Chamberlayne, for the purpose of reducing distortion.

Response to Arguments

Applicant's arguments filed 09/06/2005 have been fully considered but they are not persuasive.

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Applicant argues that Mizoguchi fails to disclose a grounding stripe deposited between two adjacent transformers.

The examiner disagrees.

Redilla discloses a transformer comprising a grounded conductive shielding [1] located between primary and second coils [elements 4 and 5 of figure 1].

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TTN

Tuyler T. Nguyen